



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:28

Input Set : N:\Crf3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw

1 <110> APPLICANT: Patten, Phillip  
 2 Stemmer, Willem P.C.  
 3 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING  
 4 <130> FILE REFERENCE: 02-020503US  
 5 <140> CURRENT APPLICATION NUMBER: US/10/646,221  
 6 <141> CURRENT FILING DATE: 2003-08-22  
 7 <150> PRIOR APPLICATION NUMBER: US/09/559,671  
 8 <151> PRIOR FILING DATE: 2000-04-27  
 9 <150> PRIOR APPLICATION NUMBER: 08/769,062  
 10 <151> PRIOR FILING DATE: 1996-12-18  
 11 <150> PRIOR APPLICATION NUMBER: 08/198,431  
 12 <151> PRIOR FILING DATE: 1994-02-17  
 13 <150> PRIOR APPLICATION NUMBER: 08/425,684  
 14 <151> PRIOR FILING DATE: 1995-04-18  
 15 <150> PRIOR APPLICATION NUMBER: 08/537,874  
 16 <151> PRIOR FILING DATE: 1995-10-30  
 17 <160> NUMBER OF SEQ ID NOS: 101  
 18 <170> SOFTWARE: PatentIn Ver. 2.0  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 50  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 26 oligonucleotide used for codon usage library  
 27 <400> SEQUENCE: 1  
 28 aaccctccag ttccgaaccc catatgatga tcaccctgcg taaactgccg 50  
 30 <210> SEQ ID NO: 2  
 31 <211> LENGTH: 38  
 32 <212> TYPE: DNA  
 33 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 36 oligonucleotide used for codon usage library  
 37 <400> SEQUENCE: 2  
 38 aaccctccag ttccgaaccc catatgaaaa aaaccgct 38  
 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 40  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 46 oligonucleotide used for codon usage library

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:28

Input Set : N:\CrF3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw

```

47 <400> SEQUENCE: 3
48      aaccctccag ttccgaaccc atatacatat gcgtgctaaa
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 44
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
56      oligonucleotide used for codon usage library
57 <400> SEQUENCE: 4
58      aaccctccag ttccgaaccc catatgaaat acctgctgcc gacc
60 <210> SEQ ID NO: 5
61 <211> LENGTH: 40
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
66      oligonucleotide used for codon usage library
67 <400> SEQUENCE: 5
68      aaccctccag ttccgaaccc gatatacata tgaaacagtc
70 <210> SEQ ID NO: 6
71 <211> LENGTH: 60
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
76      oligonucleotide used for codon usage library
77 <400> SEQUENCE: 6
78      tgggtgttatg tctgctcagg cdatggcdgt dgayttypay ctggttccgg ttgaagagga 60
80 <210> SEQ ID NO: 7
81 <211> LENGTH: 60
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
86      oligonucleotide used for codon usage library
87 <400> SEQUENCE: 7
88      ggctggtttc gctaccgttg cdcargcdgc dccdaargay ctggttccgg ttgaagagga 60
90 <210> SEQ ID NO: 8
91 <211> LENGTH: 60
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
96      oligonucleotide used for codon usage library
97 <400> SEQUENCE: 8
98      caccctgatc gctatctctt cyttygcdtc yacyggytcy ctggttccgg ttgaagagga 60
100 <210> SEQ ID NO: 9
101 <211> LENGTH: 60

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:28

Input Set : N:\Crif3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw

```

102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
106     oligonucleotide used for codon usage library
107 <400> SEQUENCE: 9
108     gctgctggct gctcagccgg cdatggcdat ggayatyggy ctggttccgg ttgaagagga 60
110 <210> SEQ ID NO: 10
111 <211> LENGTH: 61
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
116     oligonucleotide used for codon usage library
117 <400> SEQUENCE: 10
118     tgccgctgct gttcaccccg gtdacyaarg cdgdcargt dctggttccg gttgaagagg 60
119     a
121 <210> SEQ ID NO: 11
122 <211> LENGTH: 60
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
127     oligonucleotide used for codon usage library
128 <400> SEQUENCE: 11
129     cccggctttc tggaaccgtc argcdgdcda rgcdctggac gttgctaaaa aactgcagcc 60
131 <210> SEQ ID NO: 12
132 <211> LENGTH: 60
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
137     oligonucleotide used for codon usage library
138 <400> SEQUENCE: 12
139     acgttatcct gttcctgggt gayggyatgg gygtddcdac cgttaccgct acccgatatcc 60
141 <210> SEQ ID NO: 13
142 <211> LENGTH: 60
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
147     oligonucleotide used for codon usage library
148 <400> SEQUENCE: 13
149     aaactggggtc cggaaacccc dctggcdatg gaycarttyc cgtaacgttg tctgtctaaa 60
151 <210> SEQ ID NO: 14
152 <211> LENGTH: 60
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:28

Input Set : N:\Crf3\RULE60\10646221.raw

Output Set : N:\CRF4\07302004\J646221.raw

156 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 157 oligonucleotide used for codon usage library  
 158 <400> SEQUENCE: 14  
 159 gggtccggac tctgctggta cygcdacygc dtayctgtgc ggtgttaaag gtaactaccg 60  
 161 <210> SEQ ID NO: 15  
 162 <211> LENGTH: 60  
 163 <212> TYPE: DNA  
 164 <213> ORGANISM: Artificial Sequence  
 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 167 oligonucleotide used for codon usage library  
 168 <400> SEQUENCE: 15  
 169 ctgctcgtta caaccagtgc aaracyacyc gyggyaayga agttacctct gttatgaacc 60  
 171 <210> SEQ ID NO: 16  
 172 <211> LENGTH: 60  
 173 <212> TYPE: DNA  
 174 <213> ORGANISM: Artificial Sequence  
 175 <220> FEATURE:  
 176 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 177 oligonucleotide used for codon usage library  
 178 <400> SEQUENCE: 16  
 179 tctgttggtg ttgttaccac yacycgygtd carcaygtdt ctccggctgg tgcttacgct 60  
 181 <210> SEQ ID NO: 17  
 182 <211> LENGTH: 60  
 183 <212> TYPE: DNA  
 184 <213> ORGANISM: Artificial Sequence  
 185 <220> FEATURE:  
 186 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 187 oligonucleotide used for codon usage library  
 188 <400> SEQUENCE: 17  
 189 gtactctgac gctgacctgc cdgcdgaygc dcaratgaac ggttgccagg acatcgctgc 60  
 191 <210> SEQ ID NO: 18  
 192 <211> LENGTH: 60  
 193 <212> TYPE: DNA  
 194 <213> ORGANISM: Artificial Sequence  
 195 <220> FEATURE:  
 196 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 197 oligonucleotide used for codon usage library  
 198 <400> SEQUENCE: 18  
 199 acatcgacgt taccctgggt ggyggycgya artayatgtt cccggttggt accccggacc 60  
 201 <210> SEQ ID NO: 19  
 202 <211> LENGTH: 60  
 203 <212> TYPE: DNA  
 204 <213> ORGANISM: Artificial Sequence  
 205 <220> FEATURE:  
 206 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 207 oligonucleotide used for codon usage library  
 208 <400> SEQUENCE: 19  
 209 tctgttaacg gtgttcgtaa rcgyaarc ar aayctggtgc aggcttgga ggctaaacac 60

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:28

Input Set : N:\Crf3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw

211 <210> SEQ ID NO: 20  
 212 <211> LENGTH: 60  
 213 <212> TYPE: DNA  
 214 <213> ORGANISM: Artificial Sequence  
 215 <220> FEATURE:  
 216 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 217 oligonucleotide used for codon usage library  
 218 <400> SEQUENCE: 20  
 219 gaaccgtacc gctctgctgc argcdgcdga ygaytcytct gttaccacc tgatgggtct 60  
 221 <210> SEQ ID NO: 21  
 222 <211> LENGTH: 60  
 223 <212> TYPE: DNA  
 224 <213> ORGANISM: Artificial Sequence  
 225 <220> FEATURE:  
 226 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 227 oligonucleotide used for codon usage library  
 228 <400> SEQUENCE: 21  
 229 aatacaacgt tcagcaggac cayacyaarg ayccdacyst gcaggaaatg accgaagttg 60  
 231 <210> SEQ ID NO: 22  
 232 <211> LENGTH: 60  
 233 <212> TYPE: DNA  
 234 <213> ORGANISM: Artificial Sequence  
 235 <220> FEATURE:  
 236 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 237 oligonucleotide used for codon usage library  
 238 <400> SEQUENCE: 22  
 239 aaccgcgctg gtttctacct gtttgtdgar ggyggycgya tcgaccacgg tcaccacgac 60  
 241 <210> SEQ ID NO: 23  
 242 <211> LENGTH: 60  
 243 <212> TYPE: DNA  
 244 <213> ORGANISM: Artificial Sequence  
 245 <220> FEATURE:  
 246 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 247 oligonucleotide used for codon usage library  
 248 <400> SEQUENCE: 23  
 249 gaccgaagct ggtatgttcg ayaaygdat ygdaargct aacgaactga cctctgaact 60  
 251 <210> SEQ ID NO: 24  
 252 <211> LENGTH: 60  
 253 <212> TYPE: DNA  
 254 <213> ORGANISM: Artificial Sequence  
 255 <220> FEATURE:  
 256 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 257 oligonucleotide used for codon usage library  
 258 <400> SEQUENCE: 24  
 259 ccgctgacca ctctcacgtt tttcytttg gyggytayac cctgcgtggt acctctatct 60  
 261 <210> SEQ ID NO: 25  
 262 <211> LENGTH: 60  
 263 <212> TYPE: DNA  
 264 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:29

Input Set : N:\Crf3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw